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Rigid Chains, by P. V. Kozlov, A. Endrykhovskaya,
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Solubility of Cellulose Acetate in Acetone, by
P. V. Kozlov, and F. S. Sherman, 9 pp.

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Apr 1952, pp 384-391.

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Progress in Polymer Science in the USSR. A
Summary of Some Papers Given at the Eighth
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Monimsky, P. V. Kozlov.

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Vol I, No 7, 1959, pp 1112-1125.

DSIR LLJ M.1497
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kt 60
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*ATIC MCL-435/V

60-18439

Kozlov, P. V. [Kubanov, V. A., and Frolova, A. A.]
CERTAIN CORRELATIONS IN THE DEVELOPMENT
OF UNIAXIAL DEFORMATION IN CRYSTALLINE
AND VITREOUS FILMS OF POLYETHYLENE
TEREPHTHALATE. [1960] 12p. 11 refs.
Order from LC or SLA mi\$2.40, ph\$3.30 60-18439

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1959, v. 1, no. 2, p. [324-329].

Polyethylene terephthalate was used to observe the
uniaxial deformation of film in the glassy condition and
of crystalline films. It was shown that the formation of
the so-called "neck" which can take place in "cold
stretching" of crystalline and in forced-elastic defor-
mation of amorphous polymers is governed not by
phase changes but has a purely relaxation character.
The results obtained can be interpreted on the basis of
the assumption of a "packet" structure of the crystal-
line and the amorphous polymers developed by Kargin,
Kitaigorodskii and Slonimskii (Kolloid. Zhur. 19: 131,
1957) (Author)

1. Ethylene polymers--
Crystal structure

- I. Kozlov, P. V.
- II. Kubanov, V. A.
- III. Frolova, A. A.

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(Chemistry--Organic, TT,
v. 5, no. 3)

Kozlov, P. V. and others.

STUDIES IN THE SPHERULITE STRUCTURE OF
POLYMERS. III. A STUDY OF THE MICROSPHERU-
LITE STRUCTURE OF POLYMERS BY ETCHING.

[1960] 12p. 11 refs.

Order from SLA ml\$2.40, ph\$3.30

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Trans. of [Vysokomolekulyarnyye Soyedineniya] (USSR)
1960 [v. 2] no. 5, p. 421-426.

On the basis of the etching method used there were
shown optical and electron microscopic studies of
structures of microspherulites occurring in films of
polyethylene sebacate obtained from solution. The
separate coexistence in the microspherulite of poly-
ethylene sebacate of crystalline and amorphous phases
was established. The crystalline phase of the polymer
is constituted of a helical-ribbon shaped packet of
polymer chains composing the structural elements of
the microspherulites themselves. The amorphous
phase of the polymer consists of globular shapes not
(Chemistry--Organic, TT, v. 5, no. 3) (over)

60-18427

1. Polymers--Crystal
structure
2. Title: Spherulite structure
- I. Kozlov, P. V.
- II. Title: Study...

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THE EFFECT OF MOLECULAR WEIGHT ON THE
TRANSITION TEMPERATURES OF THE POLYCAR-
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carbonates. [1960] 9p.
Order from ATS \$11.95 ATS-43M46R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)
1960, v. 2, no. 5, p. 770-777.

(Physics--Molecular, TT, v. 5, no. 5)

61-12371

1. Polymers--Transition temperature
2. Carbonates--Transition temperature
3. Carbonates--Molecular weight
4. Molecular weight--Chemical effects
 - I. Kozlov, P. V.
 - II. Makaruk, L.
 - III. Title: Investigations...
 - IV. ATS-43M46R
 - V. Associated Technical Services, Inc., East Orange, N. J.

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The Glass Transition Temperature of Cellulose,
by V. A. Kargin, P. V. Kozlov, Wang Nai-ch'ang,
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Kozlov, P. V., Iovleva, M. M. and others.
THE SOLUBILITY OF SOME GRAFTED COPOLY-
MERS. [1961] 10p. (3 figs. omitted) 9 refs.
Order from LC or SLA mi\$1.80, ph\$1.80 61-10990

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(USSR) 1960, v. 2 [no. 10] p. 1580-1585.

The state diagrams were studied of a series of grafted copolymers of diphilic type (starch-polystyrene, polyethylene terephthalate-polyacrylic acid) and grafted copolymers containing starting component having common solvents (polyisobutylene-polystyrene, polystyrene-polyvinyl acetate). In all cases the grafting causes lessening of the true solubility of the grafted copolymer as compared with the starting homopolymers. For the grafted copolymer from polystyrene and polyvinyl acetate the dissolution process is described by means of thermodynamical functions on the basis of data on integral mixing heat with benzene and hydrogenated monomers.

(Chemistry--Organic, TT, v. 5, no. 11) (over)

61-10990

1. Polymers--Solubility
2. Styrene polymers--
Solubility
3. Starch--Solubility
4. Isobutene polymers--
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5. Title: Graft copolymers
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- II. Iovleva, M. M.

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BY S. KATKOV AND T. KATKOV, 6 PP.

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[illegible]

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ACSI 1-5625-B
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